

PATENT COOPERATION TREATY

PCT

REC'D 12 DEC 2003

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference CFO17020WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP 03/ 01568	International filing date (day/month/year) 14.02.03	Priority date (day/month/year) 18.02.02
International Patent Classification (IPC) or national classification and IPC Int.Cl ⁷ H04N1/00, B41J29/38, G03G21/00		
Applicant CANON KABUSHIKI KAISHA		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.


2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 9 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 25.08.03	Date of completion of this report 25.11.03	
Name and mailing address of the IPEA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer Seiji Teshima Telephone No. +81-3-3581-1101 Ext. 3531	 5H 8110

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 03/ 01568

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
pages 1-44 _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☒ the claims:
Nos. 1-8, 11, 12, 14, 15, 17 _____, as originally filed
Nos. 9, 10, 13, 16, 18 _____, as amended (together with any statement) under Article 19
Nos. _____, filed with the demand
Nos. _____, filed with the letter of _____
- ☒ the drawings:
sheets/fig 1-13 _____, as originally filed
sheets/fig _____, filed with the demand
sheets/fig _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP03/01568

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-18</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-18</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-18</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

D1: JP 9-186802 A(Matsushita Graphic Communication Systems Inc.) 1997.7.15
D2: JP 7-129042 A(Canon KK.) 1995.5.19
D3: JP 8-104044 A(Canon KK.) 1996.4.23

Claims 1-18

The subject matter of claims 1-18 is neither disclosed in any of the documents D1,D2,D3 cited in the ISR nor obvious to a person skilled in the art.

Claims 1-9

The subject matter of claims 1-9 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes memory means for storing a power consumption standard for said each operation mode and operation time data for said each operation mode.

Claim 10

The subject matter of claim 10 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes calculation means for calculating power consumption of said image processing apparatus for each of the operation modes.

Claim 11

The subject matter of claim 11 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes preparation means for preparing information concerning power consumption of the predetermined operation mode based on a value timed by the timing means.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V.2.

Claims 12,15,17

The subject matter of claims 12,15,17 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes the steps of:
reading out power consumption data for each operation mode and operation time data for each operation mode;

preparing statistic information concerning power consumption of said image processing apparatus based on the read out power consumption data for each operation mode and the read out operation time data for each operation mode.

Claims 13,16,18

The subject matter of claims 13,16,18 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes the step of calculating power consumption of the image processing apparatus for each of the operation modes.

Claim 14

The subject matter of claim 14 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes the step of preparing information concerning power consumption of the predetermined operation mode based on a value timed by said timing step.

CLAIMS

1. (Unchanged) An image processing apparatus having a plurality of operation modes including a
5 first mode for outputting image data read by image reading means and a second mode for outputting print data received from the outside, the image processing apparatus comprising:

memory means for storing a power consumption
10 standard for said each operation mode and operation time data for said each operation mode;

preparation means for preparing statistic information concerning power consumption of said image processing apparatus based on the power
15 consumption standard and the operation time data for said each operation mode; and

output means for performing an output based on the prepared statistic information concerning power consumption.

20

2. (Unchanged) The image processing apparatus according to claim 1, further comprising timing means for timing operation time data of the respective operation modes individually,

25 wherein said preparation means prepares statistic information based on a value timed by said timing means and the power consumption standard for

each operation mode.

3. (Unchanged) The image processing apparatus according to claim 2, further comprising management
5 means for managing user identification information by associating the user identification information with timing value by said timing means,

wherein said preparation means prepares statistic information based on the timed value, the
10 power consumption standard for each operation mode, and the user identification information.

4. (Unchanged) The image processing apparatus according to claim 1,

15 wherein said timing means times operation time data from a start to an end of a predetermined operation mode as an intermittent operation time corresponding to job execution scheduling according to other operation modes.

20

5. (Unchanged) The image processing apparatus according to claim 1,

wherein said output means sends the statistic information to a terminal apparatus external to said
25 image processing apparatus as a markup language.

6. (Unchanged) The image processing apparatus

according to claim 1,

wherein the first mode is a copy mode and the second mode is a printer mode.

5 7. (Unchanged) The image processing apparatus according to claim 1,

 wherein said output means outputs the prepared statistic information concerning power consumption to a display unit during designated processing for
10 designating the operation mode or during execution of the operation mode.

 8. (Unchanged) The image processing apparatus according to claim 1 further comprising:

15 specifying means for specifying a user or a using department which uses said image processing apparatus; and

 timing means for timing an operation time of said image processing apparatus by associating the
20 operation time with the specified user or using department;

 wherein said memory means stores the timed operation time as the operation time data, and said preparation means prepares the statistic information
25 for each user or using department.

 9. (Amended) The image processing apparatus

according to claim 1, further comprising an information processing apparatus capable of communicating with said image processing apparatus.

- 5 10. (Amended) An image processing apparatus capable of communicating with an information processing apparatus, having a plurality of operation modes including a first mode for outputting image data read by image reading means and a second mode
10 for outputting print data received from the outside, said image processing apparatus comprising:
 calculation means for calculating power consumption of said image processing apparatus for each of the operation modes; and
15 output means for outputting information on the power consumption calculated by said calculation means to the information processing apparatus,
 wherein the information processing apparatus generates statistic information based on the
20 information output by said output means.

11. (Unchanged) An image processing apparatus having a plurality of operation modes, comprising:
 timing means for timing operation time data
25 from a start to an end of a predetermined operation mode as an intermittent operation time corresponding to job execution scheduling according to other

operation modes; and

preparation means for preparing information concerning power consumption of the predetermined operation mode based on a value timed by the timing means.

12. (Unchanged) An information output method for outputting information concerning power consumption in an image processing apparatus having a plurality of operation modes including a first mode for outputting image data read by image reading means and a second mode for outputting print data received from the outside, the information output method comprising the steps of:

15 reading out power consumption data for said each operation mode and operation time data for said each operation mode;

preparing statistic information concerning power consumption of said image processing apparatus based on the read out power consumption data for each operation mode and the read out operation time data for each operation mode; and

performing an output based on the prepared statistic information concerning power consumption.

25

13. (Amended) An information output method by an image processing apparatus capable of

communicating with an information processing apparatus, having a plurality of operation modes including a first mode for outputting image data read by image reading means and a second mode for
5 outputting print data received from the outside, said method comprising the steps of:

calculating power consumption of the image processing apparatus for each of the operation modes; and

10 outputting information on the power consumption calculated in said calculating step to the information processing apparatus,

wherein the information processing apparatus generates statistic information based on the
15 information output in said outputting step.

14. (Unchanged) An information output method by an image processing apparatus having a plurality of operation modes, comprising the steps of:

20 timing operation time data from a start to an end of a predetermined operation mode as an intermittent operation time corresponding to job execution scheduling according to other operation modes; and

25 preparing information concerning power consumption of the predetermined operation mode based on a value timed by said timing step.

15. (Unchanged) A program which is executed by an information processing apparatus for outputting information concerning power consumption in an image processing apparatus having a plurality of operation
5 modes including a first mode for outputting image data read by image reading means and a second mode for outputting print data received from the outside, the program comprising the steps of:

reading out power consumption data for each
10 operation mode and operation time data for each operation mode;

preparing statistic information concerning power consumption of said image processing apparatus based on the read out power consumption data for said
15 each operation mode and the read out operation time data for said each operation mode; and

performing an output based on the prepared statistic information concerning power consumption.

20 16. (Amended) A program which is executed by an image processing apparatus capable of communicating with an information processing apparatus, having a plurality of operation modes including a first mode for outputting image data read by image reading means
25 and a second mode for outputting print data received from the outside, said program comprising the steps of:

calculating power consumption of the image
processing apparatus for each of the operation modes;
and

outputting information on the power consumption
5 calculated in said calculating step to the
information processing apparatus,

wherein the information processing apparatus
generates statistic information based on the
information output in said outputting step.

10

17. (Unchanged) A computer readable storage
medium having stored therein a program which is
executed by an information processing apparatus for
outputting information concerning power consumption
15 in an image processing apparatus having a plurality
of operation modes including a first mode for
outputting image data read by image reading means and
a second mode for outputting print data received from
the outside, the a program comprising the steps of:

20 reading out power consumption data for said
each operation mode and operation time data for said
each operation mode;

preparing statistic information concerning
power consumption of said image processing apparatus
25 based on the read out power consumption data for each
operation mode and the read out operation time data
for each operation mode; and

performing an output based on the prepared
statistic information concerning power consumption.

18. (Amended) A computer readable storage
5 medium having stored therein a program which is
executed by an image processing apparatus capable of
communicating with an information processing
apparatus, having a plurality of operation modes
including a first mode for outputting image data read
10 by image reading means and a second mode for
outputting print data received from the outside, the
program comprising the steps of:

calculating power consumption of the image
processing apparatus for each of the operation modes;
15 and

outputting information on the power consumption
calculated in said calculating step to the
information processing apparatus,

wherein the information processing apparatus
20 generates statistic information based on the
information output in said outputting step.